

CLAIM OR CLAIMS:

1 1. A drive rod string for a progressive cavity pump comprising:
2 a plurality of drive rods, each drive rod having a pair of opposed ends, wherein each
3 said end terminates in a frustoconical pin having tapered threading and having a radially extending
4 cylindrical shoulder;
5 a plurality of connectors, each connector attached to one said end of a pair of said
6 drive rods, wherein each said connector has a pair of opposed frustoconical threaded recesses which
7 extend from a pair of shoulders which mate with said cylindrical shoulders of said frustoconical pins;
8 and
9 an internal secondary stop within said connector acting as a positive stop in each said
10 connector for said frustoconical pin.

1 2. A drive rod string as set forth in Claim 1 wherein said internal secondary stop is
2 spaced from each frustoconical pin until said pin is elongated from stress.

1 3. A drive rod string as set forth in Claim 1 wherein each said frustoconical pin
2 cylindrical shoulder has a surface which is roughened and wherein each said connector pair of
3 shoulders have surfaces which are roughened and wherein said mating of said roughened surfaces
4 resists rotational movement.

1 4. A drive rod string as set forth in Claim 1 wherein said drive rod string connectors can
2 accommodate up to 1,750 foot pounds of torque to said drive rod string.

1 5. A connector for a pair of drive rods, wherein each drive rod terminates in a
2 frustoconical pin having tapered threading and having a radially extending cylindrical shoulder with
3 substantially no undercut between said tapered threading and said shoulder and wherein said
4 cylindrical shoulder has a roughened surface, which connector comprises:

5 a pair of opposed frustoconical threaded recesses, each said frustoconical recess
6 extending from a shoulder which will mate with said cylindrical shoulder of said frustoconical pin;
7 and

8 an internal secondary stop within said connector between said frustoconical threaded
9 recesses which acts as a positive stop.

1 6. A drive rod string as set forth in Claim 1 wherein said internal secondary stop is
2 normally spaced from said frustoconical pin when said pin is threaded into said recess.

1 7. A method of operating a progressive cavity device, which method comprises:
2 positioning a progressive cavity device downhole in a well by attaching a drive rod
3 string to said device, wherein said drive rod string includes a plurality of drive rods, each drive rod
4 having a pair of opposed ends, each said end terminating in a frustoconical pin having tapered
5 threading and having a radially extending cylindrical shoulder and includes a plurality of connectors,
6 each connector having a pair of opposed frustoconical threaded recesses, each said frustoconical
7 recess extending from a shoulder which will mate with said cylindrical shoulder of said frustoconical
8 pin; and

9 rotating said drive rod string to power said progressive cavity device.